



The Arizona Tornado Outbreak of 2010

(Updated Oct, 2011)

NWS Flagstaff, AZ





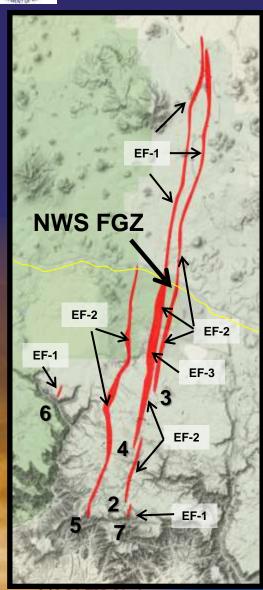
The Updated Analysis

- Since our original analysis of the Oct 6th 2010 Tornado Outbreak, additional data have been examined to better determine the magnitude of the event.
 - Additional ground surveys were conducted.
 - Radar data and storm rotational characteristics analyzed.
 - New Google Earth imagery utilized.
 - Additional research on damage ratings in forest areas.
- From these additional analyses, it was determined that at least 11 tornadoes touched down on Oct 6th, 2010 (the original estimate was 8 tornadoes). Tornado #4 was also upgraded to EF-3 intensity.



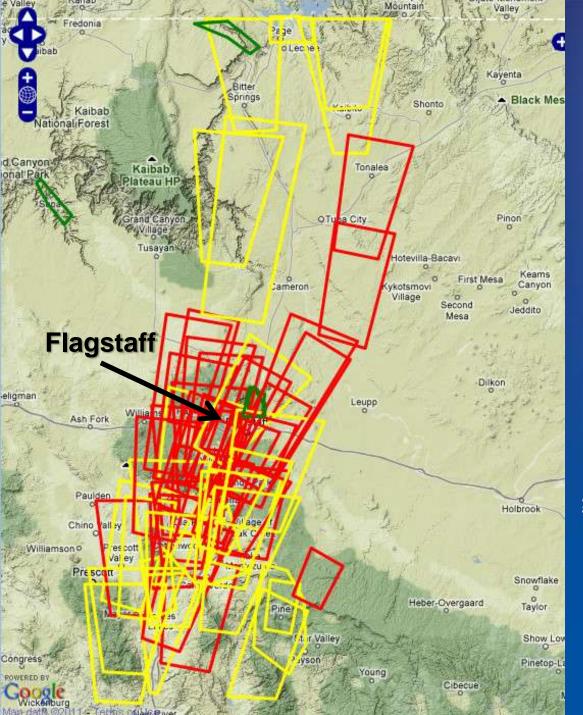
Verified Tornadoes on Oct 6th, 2010







Tornado #1 2:05 AM EF-2 Tornado #2 4:53 AM EF-2 Tornado #3 5:18 AM EF-2 Tornado #4 5:54 AM EF-3 Tornado #5 6:50 AM EF-2 Tornado #6 8:29 AM EF-1 Tornado #7 9:10 AM EF-1
Tornado #8 10:30 AM EF-0
Tornado #9 11:15 AM EF-3
Tornado #10 12:10 PM EF-0
Tornado #11 12:20 PM EF-0
(Tornadoes numbered near the start of each track on the maps)





Warnings Issued on Oct 6, 2010

28 Tornado Warnings
25 Thunderstorm Warnings
2 Flash Flood Warnings

Each box represents the area indicated by a warning on Oct 6th. As you can see, there is a great concentration of warnings near Flagstaff. Potentially tornadic storms repeatedly moved over the same limited area of Northern Arizona throughout the morning.



EF-1, EF-2 Damage in Bellemont















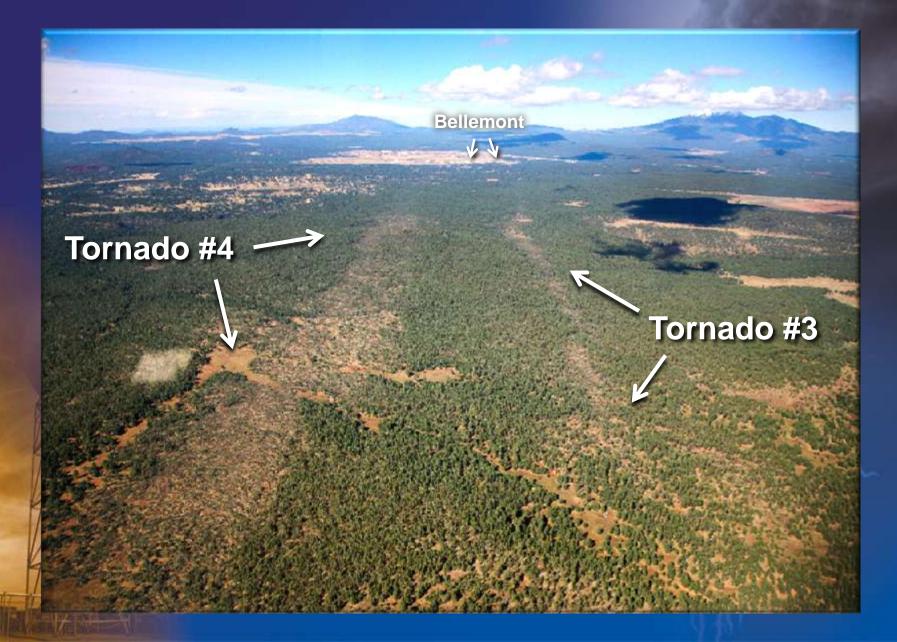
EF-2 Forest Damage North of Bellemont





Areal View ~10 Miles S. Bellemont







Tornado Tracks / Damage Near Bellemont, AZ









Summary of the Oct 6th, 2010 Tornado Event

- Greatest outbreak in Arizona
 - (previous record was 6 tornadoes in one day)
 - Duration, intensity, and number of tornadoes distinguished this event apart from any other AZ event, or any other event west of the Continental Divide.
 - At least 11 tornadoes recorded on this date. The number may go even higher with further investigation of current tracks.
- It was the greatest recorded tornado outbreak west of the Continental Divide.
- Large hail (up to baseball-sized) was reported with the tornadic storms.
- Multiple tornadic storms repeatedly developed over the same location, keeping the same small area under a constant tornado threat for several hours.
- Occurred late at night early morning with temperatures in the 40s!